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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/297,703	07/19/1999	STEPHEN A. JOBLING	CASE#1637	1158
1. 75	01/08/2004		EXAM	INER
KAREN G. KAISER NATIONAL STARCH AND CHEMICAL CO.			KUBELIK, ANNE R	
P.O. BOX 6500			ART UNIT	PAPER NUMBER
BRIDGEWATER, NJ 08807			1638	
			DATE MAN ED 01/00/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

િ	Application No.	Applicant(s)	
066 4-46 6	09/297,703	JOBLING ET AL.	
Office Action Summary	Examiner	Art Unit	
	Anne R. Kubelik	1638	
The MAILING DATE of this communication app Period for Reply	ears on the cover she t with the c	orrespondenc address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status 1) Poppopolius to communication(a) filed on 0/20//	00		
 1) Responsive to communication(s) filed on <u>9/29/6</u> 2a) This action is FINAL. 2b) This action is FINAL. 	ರತ. action is non-final.		
3) Since this application is in condition for allowan closed in accordance with the practice under E.	ce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 33-40, 42, 60-65 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 33-35,42 and 60-65 is/are allowed. 6) ☐ Claim(s) 36-40 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.	.	
Application Papers	4		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 20 November 2002 is/ar Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction	re: a)⊠ accepted or b)⊡ objectodrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language provided in the first sentence of the reference was included in the first sentence of the reference was included in the first sentence of the reference was included in the first sentence of the reference was included in the first sentence of the	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(a) t sentence of the specification or visional application has been received priority under 35 U.S.C. §§ 120	on No d in this National Stage d. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)	

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DETAILED ACTION

- 1. Claims 33-40, 42 and 60-65 are pending.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. The rejection of claims 41 and 43-59 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for isolated cassava nucleic acids with 88% identity to SEQ ID NO:28 and encoding SBEII, and nucleic acids encoding SEQ ID NO:29, methods of using those nucleic acids to alter starch properties in cassava, and plants transformed with those nucleic acids, does not reasonably provide enablement for methods of using those nucleic acids to alter starch properties in other plants, nor for nucleic acids encoding effective portions of SEQ ID NO:29, or for 300-600 bp long nucleic acids that have 88% identity to SEQ ID NO:28 and encode SBEII, methods of using those nucleic acids, and plants transformed with those nucleic acids is withdrawn in light of their cancellation and in light of Applicant submission of new claims drawn to cassava nucleic acids with 88% identity to SEQ ID NO:28, methods of using those nucleic acids to alter starch properties in cassava, and plants transformed with those nucleic acids
- 4. The rejection of claims 41 and 43-59 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention for the reasons above.

Claim Objections

5. Claim 37 remains objected to because it starts with an improper article.

The objection is repeated for the reasons of record as set forth in the Office action mailed 27 May 2003, as applied to claims 34-35, 37-40, 42-46 and 49-56. Applicant's arguments filed 29 September 2003 have been fully considered but they are not persuasive.

Applicant urges that they have corrected each of the informalities (response pg 10).

This is not found persuasive because this one remains.

Claim Rejections - 35 USC § 112

6. Claims 36-40 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contain subject matter that was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The rejection is repeated for the reasons of record as set forth in the Office action mailed 27 May 2003, as applied to claims 36-41. Applicant's arguments filed 29 September 2003 have been fully considered but they are not persuasive.

Applicant urges that the specification does disclose a repeatable process to obtain the KV832 strain on pg 14 of the specification and cites Kiel et al as a teaching the method for construction of pKVB2 and KV832 (response pg 11-12).

This is not found persuasive. Kiel et al could not be considered because it was not sent. It is also noted that Kiel et al is cited on pg 13 of the substitute specification, not page 14. It is also noted that the specification does not teach the mutation in *glgB* that is present in KV832.

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7. Claim 38 remains rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter that Applicant regards as the invention. Dependent claims are included in all rejections. The rejection is repeated for the reasons of record as set forth in the Office action mailed 27 May 2003, as applied to claims 33-59. Applicant's arguments filed 29 September 2003 have been fully considered but they are not persuasive.

Claim 38 remains indefinite in its recitation of "and its complement". Claiming two products is improper; products should be claimed in the alternate. It is suggested that "and" be replaced with --or--.

Applicant urges that they have corrected the indefiniteness (response pg 13).

This is not found persuasive because this portion of claim 38 was not amended.

8. Claims 33-35, 42 and 60-65 are allowable.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (703) 308-5059. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached at (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at (703) 308-0198.

Anne R. Kubelik, Ph.D. December 22, 2003

AMY J. NELSON, PH.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600